

In the Claims

All claims are listed below:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)

11. (Currently Amended) A telecommunications device, comprising:

a local area network;

a sender coupled to the network and operable to generate a message packet comprising an arbitration code and a data packet, the sender operable to communicate a first value of the arbitration code using the network and to determine a network value, the sender operable to compare the first value with the network value to determine whether the sender may communicate the data packet using the network; and

a plurality of receivers also coupled to the network, the message packet further comprising a destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, the sender identifying one or more receivers for the message packet according to the values of the positions corresponding to the receivers,

wherein each receiver has an associated receive code comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, each receiver operable to receive the destination code and to compare the value for at least one position of the destination code with the value for at least one position of the receive code, each receiver operable to determine whether to receive the data packet according to the comparison.

12. (Previously Presented) The device of Claim 11, wherein at least one of the receivers is operable to perform network snooping according to its associated receive code.

13. (Canceled)

14. (Previously Presented) The device of Claim 67, wherein the device is a switching unit further comprising a backplane and the network comprises a control bus.

15. (Previously Presented) The device of Claim 67, wherein the message packet is a physical layer message packet and the data packet comprises a message packet associated with a higher level protocol comprising one of:

Internet Protocol (IP);

Transmission Control Protocol (TCP); and

User Datagram Protocol (UDP).

16. (Previously Presented) The device of Claim 67, wherein the sender is operable to communicate the data packet to one or more identified receivers as a point-to-point, multi-cast, or broadcast message according to the destination code.

17. (Previously Presented) The device of Claim 67, wherein the sender is operable to communicate the destination code to each receiver, each receiver having an associated receive code comprising values for a plurality of positions, each position corresponding to a particular receiver, each receiver operable to receive the destination code and to compare the value for at least one position of the destination code with the value for at least one position of the receive code, each receiver operable to determine whether to receive the data packet according to the comparison.

18. (Previously Presented) The device of Claim 17, wherein at least one of the receivers is operable to perform network snooping according to its associated receive code.

19. (Canceled)

20. (Previously Presented) The message packet of Claim 26, wherein the device is a switching unit comprising a backplane and the network comprises a control bus.

21. (Previously Presented) The message packet of Claim 26, wherein the message packet is a physical layer message packet and the data packet comprises a message packet associated with a higher level protocol comprising one of:

Internet Protocol (IP);
Transmission Control Protocol (TCP); and
User Datagram Protocol (UDP).

22. (Canceled)

23. (Canceled)

24. (Previously Presented) The message packet of Claim 26, wherein the data packet is operable to be communicated to one or more receivers as a point-to-point, multi-cast, or broadcast message according to the destination code.

25. (Canceled)

26. (Currently Amended) A message packet for communication using a local area network within a telecommunications device, comprising:

a data packet;

an arbitration code comprising a message priority code and a sender address, a first value of the arbitration code operable to be communicated using the network and to be compared with a network value to determine whether the sender may communicate the data packet to the receiver using the network; and

a destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, the values of the positions identifying one or more receivers for the data packet, the value for at least one position of the destination code is operable to be compared with a value for at least one position of a receive code associated with a receiver to determine whether the receiver will receive the data packet.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Canceled)

35. (Canceled)

36. (Canceled)

37. (Currently Amended) A method of communicating a data packet using a local area network within a telecommunications device, comprising:

generating a message packet comprising an arbitration code, the data packet, and a destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position;

identifying one or more receivers for the message packet according to the values of the positions corresponding to the receivers;

communicating a first value of the arbitration code using the network;

determining a network value;

comparing the first value with the network value;

determining whether to communicate the data packet using the network;

receiving the destination code;

comparing the value for at least one position of the destination code with the value for at least one position of a receive code, the receive code associated with a receiver and comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position; and

determining whether to receive the data packet according to the comparison.

38. (Original) The method of Claim 37, further comprising snooping on the network according to the receive code.

39. (Canceled)

40. (Previously Presented) The method of Claim 68, wherein the device is a switching unit having a backplane and the network comprises a control bus.

41. (Previously Presented) The method of Claim 68, wherein the message packet is a physical layer message packet and the data packet comprises a message packet associated with a higher level protocol comprising one of:

Internet Protocol (IP);
Transmission Control Protocol (TCP); and
User Datagram Protocol (UDP).

42. (Previously Presented) The method of Claim 68, wherein communicating the data packet comprises communicating the data packet to one or more receivers as a point-to-point, multi-cast, or broadcast message according to the destination code.

43. (Currently Amended) The method of Claim 68, further comprising:
receiving the destination code;
comparing the value for at least one position of the destination code with the value for at least one position of a receive code, the receive code associated with a receiver and comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position; and
determining whether to receive the data packet according to the comparison.

44. (Previously Presented) The method of Claim 43, further comprising snooping on the network according to the receive code.

45. (Canceled)

46. (Canceled)

47. (Canceled)

48. (Canceled)

49. (Canceled)

50. (Canceled)

51. (Canceled)

52. (Canceled)

53. (Currently Amended) The logic of Claim 69, further operable to:

receive the destination code;

compare the value for at least one position of the destination code with the value for at least one position of a receive code, the receive code associated with a receiver and comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position; and

determine whether to receive the data packet according to the comparison.

54. (Original) The logic of Claim 53, further operable to snoop on the network according to the receive code.

55. (Canceled)

56. (Previously Presented) The logic of Claim 70, wherein the device is a switching unit having a backplane and the network comprises a control bus.

57. (Previously Presented) The logic of Claim 70, wherein the message packet is a physical layer message packet and the data packet comprises a message packet associated with a higher level protocol comprising one of:

Internet Protocol (IP);

Transmission Control Protocol (TCP); and

User Datagram Protocol (UDP).

58. (Previously Presented) The logic of Claim 70, wherein the logic operable to communicate the data packet comprises the logic operable to communicate the data packet to one or more receivers as a point-to-point, multi-cast, or broadcast message according to the destination code.

59. (Currently Amended) The logic of Claim 70, further operable to:
receive the destination code;
compare the value for at least one position of the destination code with the value for at least one position of a receive code, the receive code associated with a receiver and comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position; and
determine whether to receive the data packet according to the comparison.
60. (Previously Presented) The logic of Claim 59, further operable to snooping on the network according to the receive code.
61. (Canceled)
62. (Previously Presented) The message packet of Claim 71, wherein the device is a switching unit further comprising a backplane and the network comprises a control bus.
63. (Previously Presented) The message packet of Claim 71, wherein the message packet is a physical layer message packet and the data packet comprises a message packet associated with a higher level protocol comprising one of:
Internet Protocol (IP);
Transmission Control Protocol (TCP); and
User Datagram Protocol (UDP).
64. (Previously Presented) The message packet of Claim 71, wherein the data packet is operable to be communicated to the one or more identified receivers as a point-to-point, multi-cast, or broadcast message according to the destination code.

65. (Currently Amended) The message packet of Claim 71, wherein the destination code operable to be communicated to each receiver, each receiver having an associated receive code comprising values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, the destination code operable to be received by each receiver and the value for at least one position of the destination code compared with the value for at least one position of the receive code by the receiver to determine whether to receive the data packet.

66. (Canceled)

67. (Currently Amended) A telecommunications device, comprising:
a local area network;
a plurality of receivers coupled to the network; and
a sender coupled to the network and operable to generate a message packet comprising a destination code and a data packet, the destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, the sender operable to identify one or more receivers for the data packet according to the values of the positions corresponding to the receivers, the sender operable to communicate the data packet to the identified receivers.

68. (Currently Amended) A method of communicating a data packet using a local area network within a telecommunications device, comprising:
generating a message packet comprising a destination code and the data packet, the destination code having values for a plurality of positions, each of the positions corresponding to a particular receiver independent of the value for that position;
identifying one or more receivers for the data packet according to the values of the positions corresponding to the receivers; and
communicating the data packet to the identified receivers using the network.

69. (Currently Amended) Logic for communicating a data packet using a local area network within a telecommunications device, the logic encoded in media and operable to:

generate a message packet comprising an arbitration code, the data packet, and a destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position;

identify one or more receivers for the message packet according to the values of the positions corresponding to the receivers;

communicate a first value of the arbitration code using the network;

determine a network value;

compare the first value with the network value; and

determine whether to communicate the data packet using the network.

70. (Currently Amended) Logic for communicating a data packet using a local area network within a telecommunications device, the logic encoded in media and operable to:

generate a message packet comprising a destination code and the data packet, the destination code having values for a plurality of positions, each of the positions corresponding to a particular receiver independent of the value for that position;

identify one or more receivers for the data packet according to the values of the positions corresponding to the receivers; and

communicate the data packet to the identified receivers using the network.

71. (Currently Amended) A message packet for communication using a local area network within a telecommunications device, comprising:

a data packet; and

a destination code, the destination code having values for a plurality of positions, each position corresponding to a particular receiver independent of the value for that position, the values of the positions corresponding to the receivers operable to identify one or more receivers for the data packet, the data packet operable to be communicated to the identified receivers.